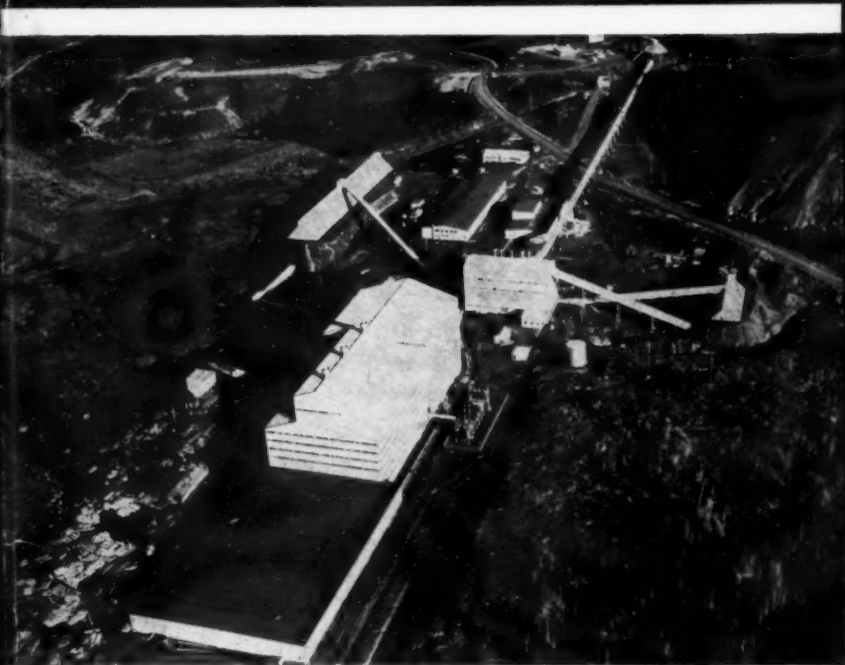
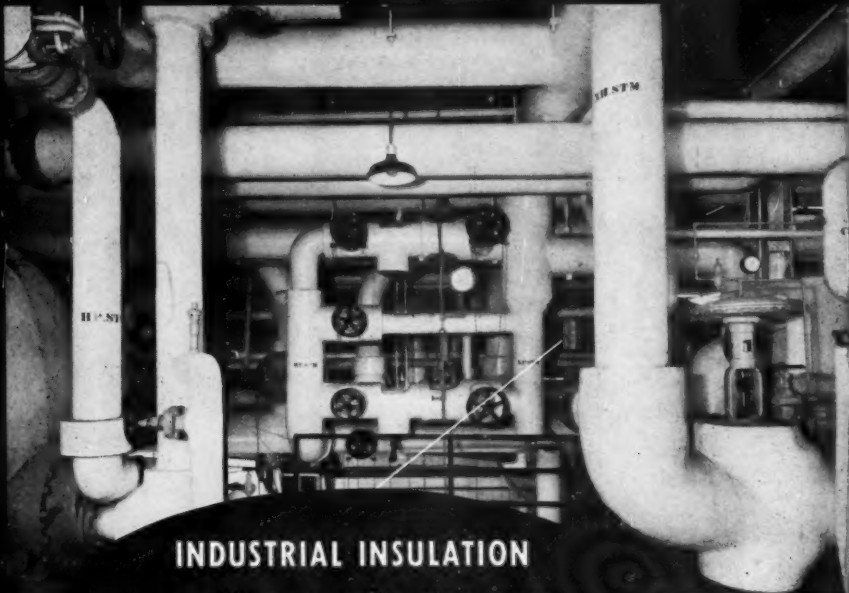


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APRIL 1955



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Number 10

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EVALUATION OF ASBESTOS DEPOSITS

(The assessment of the economic worth of new deposits and the estimation of the 'life' of producing mines depends upon accurate valuation of their ore-bodies.—By W. E. Sinclair, M.I.M.M., Consulting Mining Engineer.)

Although relatively little is heard of mine valuation, it is a subject of topical interest in all asbestos fields to-day, simply because it is of extreme importance in every aspect of asbestos production either in current or future operations.

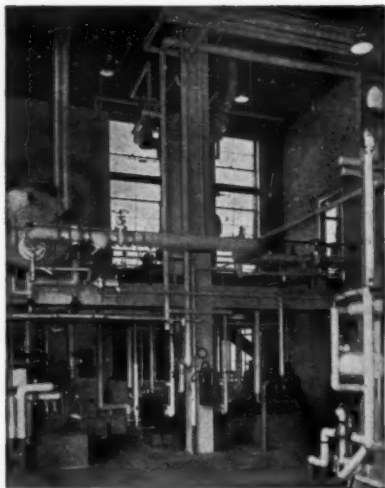
So clearly has this been proved that increasing and lively attention is manifest in the introduction of new systems and basic practices in the work of assessment of asbestos rock-bearing bodies.

In simple terms the essential aim to this end is the collection of the necessary physical data for the closest evaluation of the fibre bearing formations in the most reliable and representative manner.

The results obtained in this work are an essential requisite in, for instance, such an important undertaking as appraisal of new unproved deposits, or the just as important, determination of ore-reserves and the forecast of productive values in working mines, where the mineral is assured. Incidentally, besides the extreme value of these functions, in such estimations, many supplementary issues are derived from the basic work involved. These, in working mines, include the maintenance of steady mill grades by organized production and the efficient layout of future work, plus a complete record of the shape of the orebody and its geological makeup.

Mine valuation is a primary requisite necessary to meet the steadily increasing world demand for asbestos supplies. Maximum economic production from known orebodies and the establishment of substantial reserves of the raw material, to meet future requirements, are factors that can only be assured by up-to-date and accurate evaluation of all available resources.

Like all other mining undertakings mine valuation, in general terms, consists of the adoption of a suitable means to permit of the estimation of the extent and ton-



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nage of the orebody and the quantity and the quality of the mineral contents. Unlike base metal propositions, however, the estimation of asbestos values cannot be undertaken by the common methods of sampling and assaying the ore over regular measured sections of the formation. The asbestos content of an ore must be determined either by careful visual measurements or by testing bulk samples.

The not unusual practical difficulties of both these methods, due to the inherent differences of asbestos deposits, makes the whole question one of uncommon procedure and yet of vital importance. Obviously it is only by the establishment of reliable fundamental methods, to suit the variable conditions existing, that true evaluation is possible and fortuitous estimates, based on irregular and visual methods and worked out by random conjecture, can be avoided.

Different asbestos deposits vary greatly in their geological setting and their form of fibre deposition. While it is easy enough in some instances to visualize a fairly clear picture of the asbestos bearing formation, as a whole, it is not always a straight forward matter to obtain representative basic data of the fibre content unless there exist sufficient regular openings or exposures in the orebody. Even then, in some cases, the mode of fibre disposition in the rock creates physical difficulties in quantity assessment.

Fibre measurements in situ are often only practically possible in stratified tabular deposits in which the fibre seams are found anastomosing in regular cross-fibre form along a uniform channel. In such cases detailed measurements of fibre seam widths, and intermediate rock widths, may be taken on section lines at regular intervals, the distance between sections depending on the orebody and what will constitute a fair average of the whole exposure. Such regular channel visual measurements may of course be applied to any suitable exposures, as for instance, sections of cores, from diamond or shot drilling, as discussed below.

The assessment of the average total fibre content of the ore as deduced from such measured sections, is re-

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duced in terms of the percentage of fibre extant per ton of ore. This calculation is based on an assumed stoping width, in tabular deposits, or on measured widths of possible extractable ore in massive bodies. Allowance is usually made for the likely loss of short fibre in mining and milling operations, indeed, in some cases, fibre shorter than $\frac{1}{8}$ inch is excluded in the total fibre length measurements. By correlating the data obtained in these sectional measurements an estimation of the possible recovery of different fibre grades is attained from the proportional classification of the apparent fibre lengths in the seams exposed.

Normal development openings and stope faces in most chrysotile mines established in serpentinized sedimentary formations, such as those in Arizona and in South Africa, provide sufficient exposures for the purpose of regular sectional measurements. Similarly, the crocidolite deposits in the stratified ironstone formation in South Africa and Australia, and the amosite asbestos deposits in the Transvaal, are examples of the amphibole varieties that lend themselves to this procedure as a basis of mine valuation.

Notwithstanding ideal conditions and the most accurate practice of visual measurements, as outlined above, there is little doubt that the actual testing of bulk samples provides a safe check in every case where representative samples are available.

As so often happens, even in regular tabular deposits, the lack of sufficient faces or exposures, is one that may impose drawbacks in obtaining a cross-sectional average of either measurements or samples. This may happen, not only in new undeveloped deposits, but in working mines, especially where development is retarded or information is required at depth below the lowest openings. In these circumstances, core drilling proves a solution to the problem as it does in many other cases where regular exposures are essential for obtaining primary data for valuation purposes.

In the usual massive form of chrysotile deposits in serpentine rocks, where the cross-fibre seams occur in irregular criss-cross pattern or follow the rock fractures in haphazard fashion over extensive areas, visual measure-

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ments of the seams is a difficult job. Indeed, in most cases the results obtained are unreliable. Distribution in such cases can almost be likened to a type of metalliferous orebody in which the metal occurs like plums in a pudding. Regular bulk sampling and large scale tests are obviously the safest procedure to arrive at the mineral content of such bodies, always providing that samples are truly representative of the whole formation. In some rare instances where fibre seam distribution is more regularly developed, sectional measurements are possible, especially where mining methods provide narrow cross sections for visual examination.

It is generally recognized, however, that the best average results are obtained from deposits of this kind from core drilling both in virgin deposits and the deeper zones of working mines.

The amphibole varieties of asbestos, and especially anthophyllite and tremolite, frequently occur in mass-fibre form in which there is a complete absence of regular orientation of the fibres. No method of visual measurement or estimation is practically possible to determine the fibre content of such deposits. Similarly when chrysotile or tremolite asbestos occur in wholly slip-fibre form, it is only by actually testing representative samples from the orebody that a true average value is obtainable.

It does seem that in almost every case bulk sample tests provide the most satisfactory means of acquiring the essential data as to fibre quantity and quality contained in the ore. This, however, is only possible when an asbestos mill of suitable design is available, or otherwise where an efficient pilot mill can be used to extract and classify the asbestos to provide the necessary details. The hardness of the parent rock and the fibre characteristics, that is whether harsh or brittle, have a direct bearing on attrition losses and final recovery; factors that must be disclosed by test milling.

It is assumed that the results obtained are representative of the whole orebody because the law of averages provides a certain degree of accuracy in any mean cross-sectional method; none the less, there invariably exists a wide variation within most asbestos deposits. An overall

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review is, therefore, an essential factor.

Fibre tenor, although the most important part, is really but a fraction of the primary requisites in valuation since the extent of the asbestos bearing formation is a very necessary complement. Also, as already suggested, fundamental data regarding the characteristics of the rock-bearing formation and its general geological structure all contribute to providing the information necessary to determine the absolute worth of an orebody.

This method of procuring the evidence which, as suggested above, is an essential to complete evaluation of any asbestos orebody would appear to be superior to any other. First, because information as to fibre seams and rock structure can be obtained in nearly any ore deposit, whether virgin surface bodies or orebodies lying below developed mines. Secondly, boreholes can be regularly spaced to give an absolute representative cross-section of the whole mass and at the same time define exactly limits of the mineralized formation.

The advantages of this means of disclosing undeveloped masses of ore by the provisions of visual samples in the shape of core is too obvious to stress, a fact that is proved by the common use of either diamond or shot drills to explore potential virgin deposits and the extent and value of future reserves in producing mines.

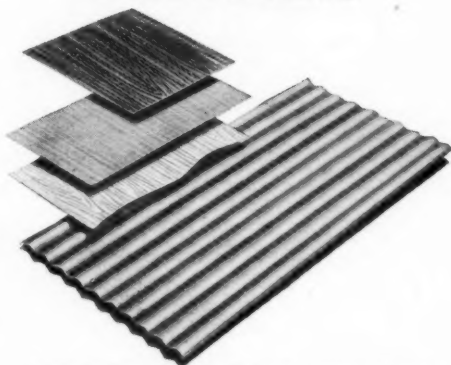
The use of diamond drills with suitable bits of substantial diameter to suit the type of rock to be penetrated in most cases provides greater advantages and better results especially as inclined holes can be drilled when it is necessary to intersect lode bodies on dip.

In diamond drilling reliable data can be obtained from most types of deposits (except mass or slip fibre orebodies), providing extreme care is taken in drilling through the fibre seam zones to ensure maximum core recovery. The sludge is usually collected for ultimate milling with the relevant core.

The core recovered from drill holes regularly spaced, usually on a square grid system throughout the formation, gives a true visual cross-section of the fibre seams as they occur in the rock. These results can be systematically measured and the core finally milled with the sludge to

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check calculated results from visual measurements.

The interpretation of the formation disclosed in the core sections includes, besides the fibre lengths indicated in the seams intersected, the quality of the fibre and the nature of the enclosing rock. Other structural features, especially as to the possibility of folding or faulting of the strata, is often made apparent.

The estimation of core values consists essentially of detailed measurements of the fibre seams and intervening rock in fixed lengths of core, to provide an expression of the ratio of total fibre length in each measured length of core as a percentage of fibre. A clay seam in the stratified formation often conveniently defines the ideal footwall or hanging-wall of the stope.

The total fibre available is a basis for calculating the possible fibre content of the rock per ton of ore, as has already been explained in regular channel measurements in tabular deposits.

Classification of the various seams exposed in the core provides a means of calculating the possible recovery in grades. In working mines, where previous recovery results are known, the application of an empirical formula to core measurements and fibre classification, gives a ready and fairly accurate valuation for purposes of ore reserve estimates and for the purpose of forecasting the value of future production. In the same manner, current drilling ahead of producing faces provides a valuable means of maintaining average mill grade by the selective operation of different mine areas. This information, if plotted on a form of "Assay Plan", indicates at a glance value trends in different zones throughout the proved area of the orebody and might quite easily indicate a mineralized zone extending in any particular direction beyond the drilled area.

Values are indicated by the fibre disclosures in each borehole and in this way the value of the area of influence of each hole is clearly shown. The sum of these areas of influence form the basis from which average estimates of quantities can be deducted.

In the final summing up of this review of ore valuation it is interesting to consider that in new deposits there



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"ASBESTOS" — April 1955

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invariably exist many speculative factors that are not common to producing mines, because, in most cases these possess tested data resulting from actual recovery over a number of years.

In a virgin deposit, even with an indicated substantial fibre content, the economic value of the proposition depends on a number of ancilliary factors. A general picture of the geological character, structure and possible zoning are points of vital importance in the overall appraisal. Similarly, the proportion of different grades of fibre that are likely to be won from the ore, the quality of the fibre and the ruling market price are matters that have an essential bearing on the payability of the deposit. The general procedure in the question of grade and quality has already been discussed.

The market price of asbestos varies from place to place depending on the class of fibre, its quality and the manner of grading.

Factors of secondary importance that also decide the ultimate worth of a deposit are governed mainly by practical operating considerations, such as development and working methods. The difference between the estimated primary or positive value of the possible output, (as mentioned above) and the cost of producing it indicates, in simple terms, whether the deposit is a payable proposition.

In the final assessment, if no typical operating example is available for comparative purposes, all other detailed considerations that enter into the question must be left to the experience and mature judgment of the examining engineer.

The latest edition of the Raybestos Brake Service Guide—awaited annually by brake servicemen as the must manual of the year—has been published by the Raybestos Division of Raybestos-Manhattan, Inc. Address requests to the Advertising Department, Raybestos Division of Raybestos-Manhattan, Inc., Bridgeport 2, Conn.



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THE COVER

The new Normandie Mine of Asbestos Corporation Limited which is now in production, is the result of some 2½ years work and approximately 16 million dollars.

This new mine which is located near the Company's Vimy Ridge Mine in the Township of Ireland, near Coleraine, Quebec, will produce a large range of asbestos fibres. The daily mill capacity is 5,000 tons of rock and the anticipated maximum output of finished product is approximately 300 tons per day.

The large building in the foreground is the main Mill, the flat structure in front of the Mill is the Fibre Storage Shed, directly behind the Mill is the combined Secondary Crusher and Dryer Building and the long building on the left is the Dry Rock Storage Bin. The buildings between the Dry Rock Storage Bin and the Secondary Crusher is the Machine Shop, the smaller building to the right adjacent to the long conveyor housing is the Truck Garage and the long conveyor leads in turn to a surge bin which is fed from the Primary Crusher Building which is the farthest building in the background.

The 43rd Annual Meeting of the National Chamber of Commerce to be held in Washington, D.C., May 1, 2, 3 and 4, will provide business men profitable background information on America's role in the tense Far East and an authoritative analysis of the economic aspect of world affairs.

The Annual Meeting is the occasion for the National Chamber with its underlying membership of 1,650,000 businessmen to review its activities of the past year and to outline issues to be faced in the year ahead.

Average American families are putting 700 miles more a year on the family car than they did 15 years ago, B. F. Goodrich business research dept. study shows. Average mileage was upped from 8,800 to 9,500.

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A BRUSH - ON ADHESIVE FOR FLOOR TILE

For the first time, a brush-on adhesive for installing floor tile is now available, according to Johns-Manville. Known as Terraflex Adhesive, it was developed for use with Terraflex vinyl-asbestos tile.

Using an ordinary paint brush or whitewash brush, homeowners who wish to do their own work can quickly apply Terraflex Adhesive. It is colorless, clean and easy to spread in a thin film. Troweling and similar complications are eliminated so even the novice can do a good job.

Terraflex Adhesive is of the rubber resin solvent type. It firmly bonds Terraflex tile to floor surfaces such as concrete, plywood, latex underlayment and asphalt saturated asbestos felt and to wall surfaces such as plywood, gypsum board and unpainted plaster.

Terraflex Adhesive is furnished in 1 quart or 1 gallon cans and is now available through Johns-Manville dealers handling Terraflex tile.

If exterior house colors are any indication, building materials manufacturers have come to realize at last that the ladies have invaded another field once considered a man's domain, according to E. J. O'Leary, sales vice president of The Ruberoid Co.

From a housing pattern in which white overwhelmingly dominated all other hues, says he, women's desire for change has led homeowners down a rainbow road on which houses now boast exteriors of almost every color of the spectrum.

An Australian Industries Fair, to be held in the Exhibition Building, Melbourne, Australia, April 21 to May 4, is being organized by the Victorian Chamber of Manufacturers.



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MARKET CONDITIONS

GENERAL BUSINESS.

General business continues to improve and in some areas the pace of improvement has accelerated sharply in recent weeks. Demand for steel has increased to the point where delivery dates are appreciably delayed and one producer is said to be on the verge of allocating production amongst his customers. There is no doubt that some of this buying is speculative and is based on the belief that prices as well as wages will increase when union contracts are re-opened in the near future.

In other lines the pattern is spottier and many industries are not enjoying "boom" conditions by any means. However, there is still a general feeling of confidence, on the part of business executives and investors, that business will continue to improve on the average for some months to come.

ASBESTOS — RAW MATERIAL.

The Asbestos Business is taking a definite seasonal pickup and is considerably exceeding the same period last year.

ASBESTOS—MANUFACTURED GOODS.

Asbestos Textiles. The market continues to be quite satisfactory, which is a substantial improvement over conditions existing a few months ago. Prospects are bright for the balance of the year and 1955 is expected to be better than last year.

Asbestos Brake Lining. The replacement market is strong on volume sales but weak on prices; equipment sales are at high level. The outlook is good in both equipment and replacement.

Asbestos Paper. Orders for commercial grades of asbestos paper seem to be picking up compared with last month. However, prices for this material are very competitive. Gradual increasing demand is expected as general conditions in the equipment and appliance fields become more active. Orders for asbestos millboard have declined more than usual and competition remains high for

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the business that is available. Production still exceeds demand for *saturated paper*, but there are good prospects on government inquiries.

Insulation. High Pressure. Since the number of large industrial installations have been materially reduced, there is a correspondingly lessening demand for high temperature insulations. Competition is very keen for the volume that is available. The outlook depends entirely on completion of projects now being figured and work already started.

Insulation. Low Pressure. Orders for low pressure insulation seem to be increasing over the previous month as a number of projects which were slowed down during the winter months are now ready for insulation, and restrictions on inventories are being relaxed somewhat.

Asbestos Cement Products. Industry shipments were down about 20% during January; weather conditions could have been largely responsible.

The roofing and siding business shows a good increase over the first two months of 1954 and so far March is showing an increase.

The market remains about the same for corrugated and flat—production still exceeding demand.

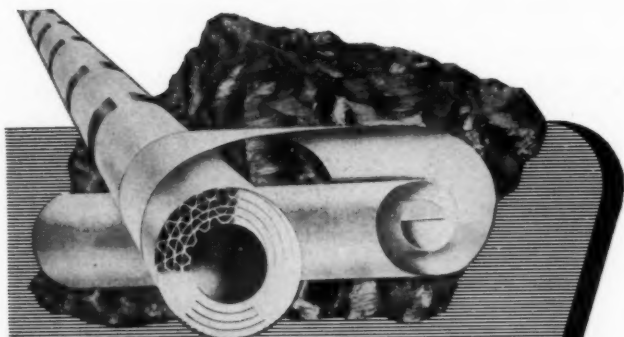
The demand for pressure and sewer pipes is increasing in certain areas because of improved weather conditions. Generally speaking, demand is fair over the country.

The above comments have been made by various informed executives in the industry. All comments are welcome.

Now, you can get your safety message in king size!

The National Safety Council has added a giant-size accident prevention banner to its stable of safety training aids. The banners, 10 feet long by 3½ feet deep and printed in two brilliant colors, point up practical safety slogans with attention-getting drawings.

Twelve banners—one for each month of the year—are available on an annual subscription basis. For a flyer showing minatures of many of the banners in full color, and for information on prices, write the National Safety Council, 425 N. Michigan Ave., Chicago 11, Ill.



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STORY OF RHODESIAN ASBESTOS LIMITED

Rhodesian Asbestos Limited is under the direction of Canadian Johns-Manville Co., Limited, in association with British Metals Corporation, Ltd., Anglo-Huronian Ltd., Southern Minerals & Marketing Corporation (Pty) Ltd., and the Simon I. Patino interests. The ore properties now under development are located at Mashaba, in the Victoria district of Southern Rhodesia.

Two mines are being developed: Temeraire located at Mashaba, and Shamala, four miles away. A central mill has been constructed at Temeraire, the ore from Shamala mine being transported to this location in 15-ton capacity diesel trucks.

A steel and concrete shaft, equipped for a hoisting capacity of 200 tons per hour, has been sunk 560 feet at Temeraire mine, and a shaft of 100 tons per hour hoisting capacity has been sunk 520 feet at Shamala mine.

Mining is being done by diamond drill blast hole and scram drift method, and the ore is loaded directly into cars by means of 60 h.p. scrapers. Ore is then crushed underground in 42 in. x 48 in. jaw crushers. The mines are among the most highly mechanized in Southern Rhodesia. All timbering is of steel and concrete to provide a maximum of safety and to prevent the introduction of foreign material into the fibres.

All surface structures, including a sorting plant for Temeraire ore and a large up-to-date mechanical and electrical service building, are constructed of steel, concrete and asbestos-cement boards.

The milling process starts with a modern drying plant and crushing plant and an 8,000-ton capacity dry rock storage.

The mill proper, a steel concrete and asbestos-cement board building, 150 x 64 x 57 feet in height, has a capacity of 125 tons of ore per hour.

Processed asbestos fibre is trucked from Mashaba to the railhead at Fort Victoria, from where it is shipped to Beira, Mozambique, for transport by water to Europe and

CANADIAN ASBESTOS



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ASBESTOS FIBRE DIVISION

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New York 5, New York

the United States. The fibre from Mashaba is the chrysotile type and is suitable for the manufacture of asbestos-cement products (including J.M.'s TRANSITE Pipe) used extensively for water and sewage disposal systems and industrial waste systems.

BUILDING

The Dodge Reports totals of contract awards for future construction in the 37 states east of the Rockies continued in February to set new high records.

The total for the month was the highest for any February on record, and the January-February total likewise was the highest ever for the two months. The February figure was \$1,581,143,000, up 29 per cent over February 1954 and 5 per cent ahead of last January. The two-month total of \$3,085,593,000 was up 30 per cent over 1954.

So far the picture looks strikingly similar to last year when the same two records were broken as a harbinger of what proved to be the biggest year of construction ever known.

February was the tenth successive month of new monthly highs in the Dodge figures which go back 64 years. It would have been the fourteenth month had not last April fallen into second place among Aprils by virtue of enormous atomic energy contracts in a prior year.

Both non-residential and residential totals were the highest ever set in any February, with residential being the stronger.

Detailed February totals were: non-residential, \$535,463,000; down 5 per cent from January but up 14 per cent over February 1954; residential, \$744,102,000, up 8 per cent over January and up 46 per cent above February 1954; heavy engineering, \$302,578,000, up 21 per cent over January and up 24 per cent over February 1954.

Individual two-month totals compared with the like period 1954 were: non-residential, \$1,099,251,000, up 17 per cent; residential, \$1,434,457,000, up 48 per cent; heavy engineering, \$551,885,000, up 20 per cent.

**LYNN, MACLEOD
ENGINEERING SUPPLIES LTD.
THETFORD MINES, P.Q., CANADA**

MANUFACTURERS & DISTRIBUTORS

FOR

**ASBESTOS FIBRE PRESSURE PACKING
EQUIPMENT**

QUEBEC STANDARD TESTING MACHINES

**ALL SPECIAL ASBESTOS MILLING
MACHINERY**

COMPLETE ASBESTOS MILLS



We have facilities for evaluating bulk samples of asbestos ore including processing with latest air swept mill equipment.

*Your inquiries for additional information
are welcomed*

SOUTHERN RHODESIA'S SECOND LARGEST ASBESTOS VENTURE

With the pushing of a button by the Prime Minister of Southern Rhodesia, Mr. R. S. Garfield Todd, The Temeraire mill of Temeraire and Shamala asbestos mines, Mas-haba, was put into commercial production. The mining and milling operations of Rhodesia Asbestos Ltd., will be the second largest in Southern Rhodesia.

The enterprise meant between 7,000,000 and 8,000,000 good Canadian dollars coming into Southern Rhodesia. The benefits were not all one-sided, but the tie that had now been established, as symbolized by the mine, would bring mutual advantage to the Colony and the Johns-Manville concern.

On behalf of the Government and people of Southern Rhodesia, Mr. Todd welcomed the Johns-Manville Corporation. He said the parent company in Canada last year sold more than £80,000,000 worth of asbestos and asbestos manufactures.

In Southern Rhodesia, the Corporation would use only about a quarter of the labor which other concerns of the same size would normally require, because of the high degree of mechanization which has been achieved.

As a Government they recognized there was no future for the country unless they could get a great deal more production in value per head of the population than they were achieving.

Mr. G. A. Davenport, the Minister of Mines, said the output of the Temeraire Mine would be of considerable importance to the Federation's balance of trade.

He welcomed the Johns-Manville Corporation, "for they are the world's premier asbestos people and their advent should be of considerable importance and assistance to the Southern Rhodesian asbestos industry."

The Temeraire Mine is not expected to rival in output the Shabanie Mines, but it would be of considerable importance, particularly as the sale of its output to the parent concern seemed assured.

INDUSTRIAL SERVICE COMPANY

Builders of

ASBESTOS CEMENT MACHINERY

Our experienced engineers and machinists offer the industry entire machines built to deliver maximum production.

Your Inquiries Are Invited

1-51 Paterson Avenue

E. Rutherford, N. J.

*We are regularly shipping
to leading overseas buyers
all grades of asbestos fibre*

DIRECT FROM MINES IN
RHODESIA & SOUTH AFRICA AT
COMPETITIVE MARKET PRICES

**CHRYSTILE
CROCIDOLITE
AMOSITE**

Please cable or phone:—

UNITED STERLING CORPORATION LTD

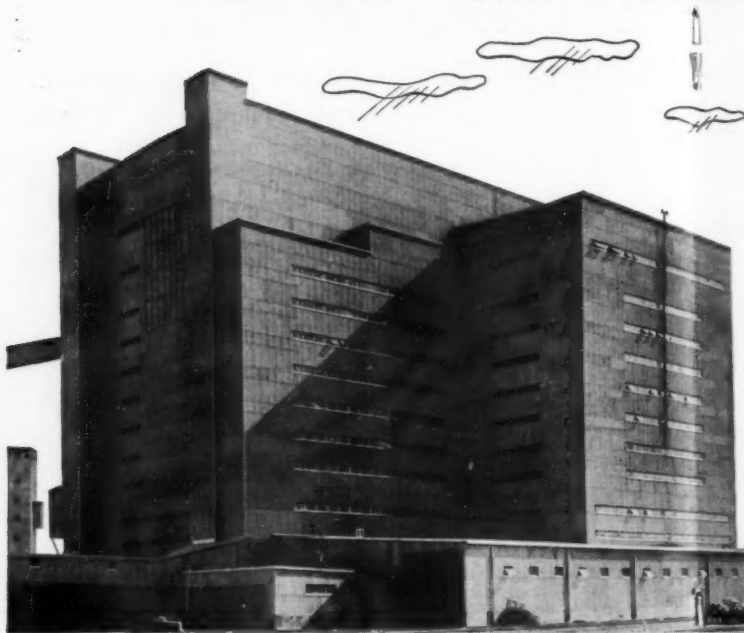
8, HEDDON STREET, REGENT STREET, LONDON, W.1.
Phone: GROSvenor 5301. Telegrams: UNICOST PICCY LONDON. Cables: UNICOST LONDON

"ASBESTOS" — April 1955

PE 12 dm

Page 29

Johns-Manville's **GIANT N** ... assures asbestos fibre users u dependable supply for presen




By 1956, the capacity of this new mill will be about 625,000 tons.
14 stories high, it has 22½ acres of floor area.

Asbestos Fibre Division . . .

IT NEW ASBESTOS MILL

**sers uniform quality and
present and future needs**



ALREADY in operation, the new Jeffrey Asbestos Mill of Johns-Manville is the largest in the world. Its full production capacity will be greater than one-third the free world's supply of fibre. Its ultra-modern machinery can produce cleaner, higher quality fibre in closer conformance to customer requirements than possible with conventional equipment. In addition, the "pressure packing" system of shipping used at this mill and developed by Johns-Manville, results in substantial customer economies. For more information, write to the address below.



ns. **"Shorts" and "floats"** of asbestos fibre are blended in varying amounts for different uses in this automatic batching equipment.



Asbestos fibres are pressure-packed in uniform 100-lb. blocks at the mill. This new method simplifies storage and handling, reduces freight charges.

Canadian Johns-Manville Co., Ltd.
Asbestos, P.Q., Canada Telephone ASbestos 100

The underground crushers were the largest in Southern Rhodesia and probably rivalled in size any similar crushers in South Africa.

The central mill, which will draw ore from the Company's two producing mines — Temeraire and Shamala — has a capacity of over 20,000 tons of fibre annually.

THIS AND THAT

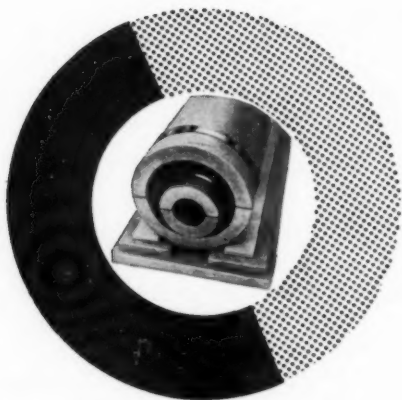
The Design Engineering Show, scheduled to be held in Philadelphia in May, has been postponed until late Spring in 1956. The event will be staged in Convention Hall and the Design Engineering Conference will be held concurrently with the show.

Don't forget to tell us changes in personnel, of new booklets or catalogs issued, so we may make mention in "ASBESTOS".

If you find errors in our Birthday List please write us immediately; sometimes it is difficult to check this properly.

Be sure to keep us advised on new products or improvements in new ones.

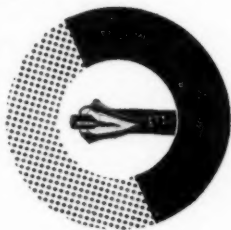
We have been asked for the names of the distributors for "KEYSTONE ASBESTOS FLOUR". Can any of our readers supply this information?



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**For your most exacting
Insulation requirements**

Unibestos No. 750 pipe covering • Unibestos
No. 1200 pipe covering • Unibestos block •
Asbestos textiles • Asbestos packings •
Asbestos gaskets • Asbestos gasket cloth and
tape • Asbestos fiber • Insutape pipe
insulation • Insutube pipe insulation •
Wovenstone pipe insulation • Thermal
insulating tape • Insubestos felt • Fabricated
specialty insulation



write for illustrated Brochure

UNION ASBESTOS AND RUBBER COMPANY

332 SOUTH MICHIGAN AVENUE — Chicago 4, Illinois

AUTOMOBILE SALES

	February 1955
Passenger Cars	678,254
Motor Trucks	67,061
Motor Coaches	176
	<hr/>
	745,491

In February 1954, a total of 534,145 motor vehicles were sold. In the two months of 1955 the total was 1,471,599.

These figures were supplied by the Automobile Manufacturers Association, New Center Building, Detroit, Michigan.

PHILLIPS ASBESTOS MINES

Producers of
CRUDES
and

FIBERIZED ASBESTOS
The World's Finest Fibres

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GLOBE, ARIZONA

Mines and Mills in Gila Co., Arizona

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Importers since 1909 of

ASBESTOS - ORES - MINERALS

BLUE ASBESTOS

Widely known for its resistance to acid and chemical action—is also the strongest, toughest, finest in fiber diameter, most durable of all mineral fibers.

WORLD'S LARGEST SUPPLIER OF BLUE ASBESTOS IS CAPE BLUE MINES (Pty) Ltd.

Skefko House, Rissik Street, Johannesburg, South Africa
(Mines centered at Koegas, Cape Province)
an associate company of

THE CAPE ASBESTOS CO., Ltd.
114-116 Park Street, London, W.1.



*For complete information about Blue Asbestos,
contact the following Cape Asbestos Co.
subsidiaries:*

in the United States
NORTH AMERICAN ASBESTOS CORPORATION
Board of Trade Building, Chicago 4, Illinois
In Canada
CAPE ASBESTOS (Canada) Ltd.
200 Bloor Street East, Toronto, Ontario

PRODUCTION STATISTICS

Canada

(Department of Mines, Province of Quebec)

Tons 2000 lbs.

Production for January 1955	57,580 tons
Compared with January 1954	54,936 tons
Dominion Production for January 1955 is 60,332 tons, a difference of 2,752 tons from the Quebec figure.	

Africa (Rhodesia)

(Published by Rhodesia Chamber of Mines)

Tons 2000 lbs.

Production for November 1954	6,923.64 tons
Valued at	£507,814
Production for November 1953	6,588.57 tons
Valued at	£349,437

India—Production of asbestos totaled 569 long tons valued at Rs. 548,883 in 1953, compared with 865 tons valued at Rs. 493,429 in 1952. (From Mineral Trade Notes, November 1954)

Union of South Africa

(Quarterly Information Report—Dept. of Mines.)

Tons 2000 lbs.

	3rd Quarter (July, August & Sept. 1954)				
	Production Tons	Local Sales		Exports	
		Tons	Value	Tons	Value
Amosite	12,293	1,316	£34,445	10,620	£ 423,894
Anthophyllite	110	.....	.....	.....	.....
Chrysotile	4,776	390	11,698	4,636	335,571
Cape Blue	7,229	429	22,545	5,502	414,110
Transvaal Blue	3,565	125	7,541	2,577	169,170
	27,973	2,260	£76,229	23,335	£1,342,745

A. G. NEWTON PASSES AWAY

Arthur G. Newton, President of Rockbestos Products Corporation died suddenly at his home early in March.

Mr. Newton had been president of Rockbestos since 1923, joining the New Haven wire and cable company after serving as general manager of the Fletcher Works, Philadelphia.

CENTRAL ASBESTOS CO. LTD.

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Corner of Our Factory in London Showing
Asbestos Awaiting Processing

CAPE BLUE ASBESTOS

- HIGH TENSILE STRENGTH
- HIGH ACID RESISTANCE
- STRICT QUALITY CONTROL

DIRECT FROM THE MINES IN SOUTH AFRICA
OR FROM BUFFER STOCKS IN LONDON

We process to customers' requirements all types of Asbestos
ENQUIRIES WELCOMED FOR

CAPE BLUE • TRANSVAAL BLUE • AMOSITE • CHRYSOTILE ETC.

IMPORTS AND EXPORTS

Imports into U.S.A.

(Figures by Bureau of Census)

Unmanufactured Asbestos—By Countries:

	November 1954 Tons (2240 lbs.)
From Canada.....	47,830
Union of S. Africa.....	3,217
Rhodesia.....	509
So. B. Africa.....	125
Australia.....	107
Other Countries.....	7
	<hr/> 51,795
Valued at.....	\$3,993,730

By Grades:

Crude No. 1, Chrysotile, Rhodesia.....	62
Crude, Other, Chrysotile, Canada.....	714
Crude, Other, Chrysotile, U. of S. Africa.....	240
Crude, Other, Chrysotile, Rhodesia.....	447
Crude, Other, Chrysotile, So. B. Africa.....	125
Crude, Blue, Australia.....	107
Crude, Blue, U. of S. Africa.....	1,096
Crude, Amosite, U. of S. Africa.....	1,881
Textile Fibres, Chrysotile, Canada.....	1,458
Textile Fibres, Chrysotile, Other Countries..	7
Shingle Fibres, Chrysotile, Canada.....	4,325
Paper Fibres, Chrysotile, Canada.....	4,126
Other Fibres, Chrysotile, Canada.....	37,207
	<hr/> 51,795

Manufactured Asbestos Goods:

	November 1954 Quantity (lbs.)	Value
Asbestos Yarn.....	11,908	\$ 11,825
Asbestos Packing & Lining, Canada.....	14,771	16,912
Asbestos Shingles, (Not Impreg.).....		
Canada.....	1,132,503	111,931
Asbestos Shingles (Impreg.).....	1,826	260
Asbestos Manufactures—Others.....	.....	10,673
	<hr/> 1,161,008	<hr/> \$151,601

CORRECTION: In our January issue, page 34, Imports into U.S.A., we listed by grades, "Shingle Fibres, Chrysotile, Australia—215 tons". We have been advised by the Bureau of Census that the origin of the merchandise was in error, and should have been reported as "Shingle Fibres, Chrysotile, Canada".

Exports from U.S.A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	November 1954	
	Tons (2240 lbs.)	Value
To: Europe	207	\$33,227
Canada	18	3,300
South America	18	1,188
	<hr/> 243	<hr/> \$37,715
	November 1954	
	Quantity	Value

Manufactured Asbestos Goods:

Asbestos Pipe Covg. & Cement	Lbs.	441,180	\$ 64,102
Asbestos Textiles & Yarn	Lbs.	44,729	44,981
Asbestos Packing	Lbs.	95,996	115,046
Asbestos Clutch Facings' Lining	No.	97,625	82,972
Asbestos Bk. Lng. (Mld. & S. Mld.)	Ft.	235,996	77,582
Asbestos Bk. Lng. Rolls (Woven) Lin.Ft.		45,891	37,097
Asbestos Brake Lining Sets	Lbs.	351,428	316,299
Asbestos Construction Materials	Lbs.	2,210,797	167,212
Asbestos Manufactures—Others .....		....	36,804
			<hr/> \$942,095

SITUATION WANTED

Estimator-Salesman, experienced reading plans, measuring jobs, pricing and handling commercial insulation jobs. Address: Box 4P-C, "ASBESTOS", 807 Western Saving Fund Bldg., Philadelphia 7, Pa.

WILHELM BURGDORF

Importer of Raw Asbestos

P. O. Box 1131, BREMEN, GERMANY

Exports from Canada

(Published by Dominion Bureau of Statistics)

Unmanufactured Asbestos:

	January 1955	
	Tons (2000 lbs.)	Value
<i>Crude</i>		
United States	17	\$ 15,208
United Kingdom	2	2,404
South America .....	.....	.....
Central America & Mexico .....	.....	.....
European Countries	15	10,260
Other Countries	12	11,429
	46	\$ 39,301
<i>Milled</i>		
United States	10,970	\$1,841,101
United Kingdom	961	319,307
South America	193	36,844
Central America & Mexico	130	23,410
European Countries	3,492	653,003
Other Countries	2,472	419,076
	18,218	\$3,292,744
<i>Shorts</i>		
United States	35,485	\$1,701,138
United Kingdom	325	13,393
South America	29	2,218
Central America & Mexico .....	.....	.....
European Countries	1,807	98,924
Other Countries	265	16,544
	37,911	\$1,832,217
<i>Grand Total—Unmanufactured Asbestos....</i>	56,175	\$5,164,262
<i>Manufactured Asbestos Goods:</i>		
Brake Lining		\$ 28,154
Packing		46
Other Materials		60,593
		\$ 88,793

THE ALJON MANUFACTURING CO., INC.

The Aljon Manufacturing Co., Inc. of Maspeth, New York, manufacturers of AL-COR-JAC announces the appointment of Chas. Wood & Co., Acoustic and Thermal Insulation, 88 Main Street, West Orange, N. J., and 18 E. 41st Street, New York City, as its distributor of Corrugated Aluminum Jacketing.

NICHOLS
NEVER-STAIN[®]

THE PERFECT

Aluminum Nail for ASBESTOS SIDING



"File-Grip"
NAIL

"Screw-Thread"
NAIL

- RUST-PROOF — no discoloration
- GREATER HOLDING POWER
- SMALL INCONSPICUOUS HEAD
- STRONG ALUMINUM ALLOY — easy to drive

The finest rust-proof non-staining aluminum nails ever offered for the application of asbestos siding. Because of a special NICHOLS process an increase in nail strength has been developed that insures maximum drivability.

Small diameter head and thickness assures minimum visibility once nail has been driven. Special threads developed by NICHOLS provide ultimate withdrawal resistance.

"File-Grip" Aluminum Nails are available in 1-7/16" and 1-3/4" lengths. "Screw-Thread" Aluminum Nails are available in 1-1/8" lengths.

New NICHOLS Aluminum Screw-Thread nails are used for applying asbestos siding over plywood sheathing and many other types of new work.

These nails are now included with asbestos siding and shingle shipments of many leading asbestos products manufacturers.

Write for free samples and descriptive literature. Address Dept. A.



NICHOLS WIRE & ALUMINUM CO.
GENERAL OFFICES & FACTORY—DAVENPORT, IOWA

Branches: Mason City, Iowa; Battle Creek, Mich.; Cincinnati, Ohio;
Atlanta, Ga.; Danbury, Conn.; Seattle, Wash.; Oakland, Calif.

NEWS OF THE INDUSTRY

HAPPY BIRTHDAY

- Philip A. Meyer, President, Nicolet Asbestos Mines, Ltd., Norbestos, Que., Canada, April 16.
- Robert W. Weaver, Vice-President, Grant Willson, Inc., Chicago, Ill., April 16.
- P. O. Baker, District Manager, Asbestos Textile & Packing Division, Raybestos-Manhattan, Inc., Providence, R.I., April 18.
- Lorne Bain, President, Asbestos Erectors of Canada Ltd., Montreal, Canada, April 19.
- Alvan D. Simpson, President, Asbestos Erectors, Inc., Bound Brook, N. J., April 19.
- George A. MacLellan, Managing Director, George MacLellan & Co., Glasgow, Scotland, April 19.
- Guy H. Montmartin, President, Alpine Mining Corporation, New York City, April 21.
- H. J. Dowd, First Vice President, Smith Asbestos Products, Inc., Millington, N. J., April 22.
- John R. Skidmore, Secretary-Treasurer, Pacific Asbestos-Cement Products Corporation, San Bernardino, Calif., April 22.
- H. B. Johnson, District Manager, Philip Carey Mfg. Company, Chicago, Ill., April 23.
- Joseph Matulicz, Partner, Amith Asbestos Associates, Brooklyn, N. Y., April 26.
- Frank R. Hickory, President, Asbestos Products Inc., St. Paul, Minn., April 27.
- J. Carroll Johnston, President & Treasurer, Atlas Asbestos Company, North Wales, Pa., April 28.
- Merlin W. Simon, Secretary, Sprinkmann Sons Corp., Milwaukee, Wis., April 30.
- Richard H. Jaffer, President, York Insulation Company, Inc., Hillside, N. J., May 1.
- R. G. Bennett, Roofing Manager, A. H. Bennett Co., Minneapolis, Minn., May 4.
- Gerard A. Reynolds, Vice President, Armor Products Inc., New York City, May 4.
- S. E. Josi, Director, Johns-Manville Co., Ltd., London, England, May 5.
- George S. Fabel, President, Southern Asbestos Co., Charlotte, N. C., and Thermoid Co., Trenton, N. J., May 7.
- C. G. Dandrow, Vice President, Johns-Manville Sales Corporation, New York City, May 12.
- L. M. Cassidy, Chairman of the Board, Johns-Manville Sales Corporation, New York City, May 13.

Continued on page 44

RAYBESTOS-MANHATTAN, INC.**Annual Report**

Annual Report of Raybestos-Manhattan, Inc. for 1954 shows net income of \$2,798,094, or \$4.45 per share. For 1953 net income was \$3,361,506 or \$5.35 per share.

Net sales in 1954 were \$66,769,939, compared with \$74,277,791 in 1953.

Detailed figures for 1954 follow. Comparable figures for 1953 are given on page 49 of our April 1954 number.

Net Sales	\$66,769,939
Manufacturing Cost of Sales	51,353,128
Gross Profit	15,416,811
Selling, Administrative and General Expenses	11,261,880
Profit from Operations	4,154,931
Other Income, Discount, Interest, Dividends, Etc. ..	783,773
Total Income before Taxes	4,938,704
Provision for Taxes	2,140,610
Net Income Transferred to Surplus	2,798,094
Surplus as of December 31, 1954	\$28,699,060

ASBESTOS TEXTILES

are manufactured in our own modern plant at Stark Mills, Hogansville, Ga. Spinning and weaving operations are closely controlled for maximum uniformity in asbestos yarns, fabrics and tapes. Specialties developed to meet customers' requirements.



Write: Asbeston® Dept., Textile Division
UNITED STATES RUBBER COMPANY

1230 Avenue of the Americas, New York 20, N. Y.



L. T. Bennett, Vice President, A. H. Bennett Co., Minneapolis, Minn., May 14.

A. M. Ehret, St., Chairman, Ehret Magnesite Mfg. Company, Valley Forge, Pa., May 15.

To all these gentlemen we extend congratulations and good wishes on the occasion of their birthdays.

KATHERINE C. MINES

William C. Bealmear, operator of the Katherine C. Mines on Pinyon Flats, 6 miles from Nightingale's Camp near Mountain Center, Riverside County, California, is preparing to put several types of asbestos products on the market. Heavy equipment was first moved to the property in August 1954, and since has been developing and producing amphibole asbestos, mica and vermiculite.

Products from these minerals will be manufactured at 11400 E. Garvey Ave., El Monte, Calif. A mill of 15 to 20 tons per hour capacity will be installed at Indio where highway and rail facilities are available. The latest type of Cyclone equipment will be purchased, and in addition to processing their own ore the company will buy ore and do custom work. Company products will be marketed under the trade name of "Calasbestos", "Calmico" and "Calvermica". At present Cal-Mag and Car-Iron, produced by Capt. F. S. Kearney of San Diego, are being distributed from the company plant at El Monte.

Mr. Bealmear states that in cooperation with Capt. Kearney a highly sensitive specially adapted set of instruments have been developed to ascertain the extent and location of deposits and veins of any substance. He reports its operation to be "uncannily accurate". They have also developed a most effective method of electronic separation of ores.

(From California Mining Journal March 1955)

THE RUBEROID CO. INAUGURATES SAFETY CONTEST

Harry R. Mesler, Jr., safety director for The Ruberoid Co., reported that his company's lost-time accident frequency rate for 1954 was the lowest ever recorded.

The combined rate for all of Ruberoid's 17 plants was 6.31 lost-time accidents per million manhours. This compares with a rate of 8.14 in 1953. Among company plants, those at Gloucester City, N. J., Millis, Mass., and Salt Lake City, Utah, attained a perfect record for the year.

As part of the effort to emphasize safety in 1955, Ruberoid has inaugurated an intra-plant safety contest. It will be conducted from New York and Ruberoid plants all over the country will participate.

CABLE ADDRESS METABEST

METATE ASBESTOS CORPORATION

Producers of

ARIZONA CHRYSOTILE CRUDES

and

FILTRATION FIBRE

Mines & Mill:

SAN CARLOS
INDIAN RESERVATION
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C. J. Petrow & Co. (pty.) Ltd.

Johannesburg, S. Africa

Offering Only Approved Mine Fibres

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All Grades

All Types

• ————— •
Every Order Personally Inspected

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76 Market St.**

**P. O. Box 11000
Cable: SOTSEBSA**

JOHNS-MANVILLE CORPORATION
Annual Report

Johns-Manville sales securement figures for the first two months of 1955 are at a higher level than the same period last year and field reports indicate that this trend will probably continue for the balance of the year, according to L. M. Cassidy, Chairman of the Board.

He told stockholders at their annual meeting on March 11th, that 1955 could turn out to be a record year and that the long term future for the country's economy and Johns-Manville "is bright indeed".

Mr. Cassidy pointed out that all signs indicate that 1955 will be one of the greatest construction years in the nation's history. During the first two months of 1955 many more new homes were started than a year ago. In fact, new records were established in January and February.

Turning to Johns-Manville's 1954 sales and earnings, Mr. Cassidy pointed out to the stockholders that last year the company had "slightly topped" the sales record of 1953 although earnings per share were \$5.25 per share in 1954 compared with \$6.20 per share in 1953.

A. R. Fisher, President of Johns-Manville Corporation, reported to the stockholders that the company's intensive campaign to reduce over-all costs in all phases of the company's business has resulted in savings and in operating improvements which will continue for years to come.

A number of new projects and new products to strengthen Johns-Manville sales and earnings were completed last year and are now or will soon be bringing in additional return.

Among the more important projects undertaken in 1954 was the introduction of technological improvements to increase the capacity of existing Johns-Manville TRANSITE asbestos-cement pipe machines by one-third.

The eleven Johns-Manville directors were re-elected.

UNION ASBESTOS & RUBBER CO.
Annual Report

Earnings of the Union Asbestos & Rubber Company of Chicago amounted to \$336,716 in 1954, including non-recurring profits, Edwin E. Hokin, president, reported to stockholders at the annual meeting.

Sales were up 19.7 per cent over the preceeding year, amounting to \$13,649,808 in 1954, compared with 1953's sales of \$11,401,293.

As of December 31, 1954, the company's backlog of unfilled orders amounted to \$3,879,501, approximately 28 per cent over the \$3,024,876 at the end of 1953.

Nineteen fifty-four earnings, equalled 71 cents a share. In 1953 the company earned \$164,736, or 35 cents a share.

NOW, AS ALWAYS—

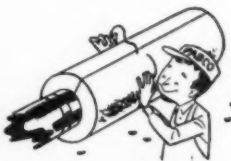


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**Dependable
Standard-
Modernized**



UNIFORM PRECISION

Dependable precision in heat insulation, to meet modern engineering demands! Pabco "Precision Molded" 85% Magnesite combines time-tested superiority with precision molding—close tolerances, controlled sizes, light weight, uniform texture!



SAVES MAN HOURS

Thus, Pabco is faster to apply! Easier to lift, quicker to cut and score, simpler to embed tie wires! You get Precision fit—pipe sizes and blocks molded to exact size!



PABCO PRODUCTS INC.

INSULATION DIVISION

San Francisco 19

New York 16

Manufacturers of Heat Insulation since 1920

ASBESTOS-CEMENT PLANT TO BE BUILT AT TORORO

A new company, Universal Asbestos Manufacturing Company (East Africa) Ltd., has been incorporated in Uganda, with an authorized capital of £150,000 to establish a cement-asbestos industry at Rororo, in eastern Uganda.

It is a joint holding of the Uganda Cement Industry Ltd., Messrs. Universal Asbestos Manufacturing Company Ltd., of Watford, England, and Tanganyika Cotton Company (Holdings) Ltd. The Uganda Cement Industry is itself a subsidiary of the Government-sponsored Uganda Development Corporation Ltd.

Plans are to establish the new industry on a plot of land adjoining the cement factory at Rororo, from which supplies of cement will be obtained in bulk.

Production will, at first, be confined to cement-asbestos roofing sheets, but other products such as pipes, gutters, and water tanks are expected to follow. These are things which, although widely used in Britain, are not extensively imported into East Africa because of the high risk of damage in transit.

Mr. G. M. Gibson, chairman of the new company is confident a good demand for cement-asbestos products could be built up in East Africa, once the local product became available.

Mr. Alan Walker, Manager of the new factory expects production to begin by September or October of this year.

Asbestos for the new industry will come initially from Rhodesia, but experiments have been made with Kenya-produced asbestos, and a proportion of this is likely to be used. If it proves practicable, the intention is to take a higher proportion of the local asbestos.

CANADIAN JOHNS-MANVILLE CO. LIMITED New Location of Sales Office

Effective April 15, 1955, the Sales Office of the Asbestos Fibre Division of Canadian Johns-Manville Co., Limited, will be located at their mines and milling centre at Asbestos, P.Q., Canada. On and after that date all business will be transacted from that location.

The town of Asbestos is readily accessible at all times by train, car or even by plane—J-M owns a private air strip just outside the town. Asbestos is a mere 100 miles East of Montreal, in the so-called Eastern Townships of the Province of Quebec.

This move will place their sales and order staff in immediate contact with their operational men and will no doubt result in even better service to their customers. They sincerely hope that, if you possibly can, you will visit them at Asbestos and see for yourself the world's largest asbestos operations.

The telephone number at Asbestos is 100. Starting April 15, all correspondence should be addressed to P.O. Box 1500, Asbestos, P.Q., Canada.

Antony Gibbs & Co., Inc.

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Tel. Digby 4-6580

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CAPE BLUE

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Baboon Asbestos Co.
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ASTM

To keep up to date the triennially published Book of ASTM Standards, the American Society for Testing Materials, in the intervening years, issues Supplements to each part of the Book.

The 1954 Supplements, issued in seven parts, give in their latest form 415 specifications, tests and definitions which either were issued for the first time in 1954 or revised since their appearance in the 1952 Book or the 1953 Supplements.

The 1954 Supplements, in heavy paper covers, can be obtained from the American Society for Testing Materials, 1916 Race St., Philadelphia 3, Pa., at \$3.50 per part—or \$24.50 for the complete set of seven parts.

THE RUBEROID CO.

New Appointments

The Ruberoid Co. recently announced that *Jerome Simon* of Willowick, Ohio, *Frank J. Romeo*, New Lenox, Illinois, and *Jarvis V. Heberling*, Pittsburgh, Pa., have been appointed sales representatives.

Mr. Simon, who will serve distributors in the Cleveland area, has been employed in the inside sales office of Ruberoid's Erie, Pa., plant for nearly three years. Prior to joining the company, he worked for the Malleable Iron Co. in Erie.

Mr. Heberling has worked in the building materials field for many years and will cover Western Pennsylvania.

Formerly employed by the Baldus Company in Fort Wayne, Indiana, Mr. Romeo will serve distributors in northeastern Illinois.

H. B. FULLER COMPANY

Opens New Plant

H. B. Fuller Company, manufacturers of industrial adhesives since 1887, announces the opening of a new adhesives manufacturing plant in Linden, N. J. The new factory will continue the adhesive service to manufacturers begun by the previous plant in Newark, N. J. Please conduct all future business with H. B. Fuller Company, 1201 Fuller Road, Linden, New Jersey.

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ENQUIRIES WELCOME

THE RUBEROID CO.

It has recently been announced that *Michael J. Messel* has been placed in charge of the company's gypsum mining and manufacturing operations. In addition to this new duty, he will continue to manage Ruberoid's asbestos mine at Hyde Park, Vermont. His new title will be co-ordinator of asbestos fibre and gypsum products.

Mr. Messel joined Ruberoid in 1946 following a tour as the technical director of a mining project in South America. Prior to that time he was a mining engineer for Asbestos Corporation Limited.

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AMERICAN BRAKE SHOE COMPANY
Annual Report

The Annual Report of American Brake Shoe Company for the year ending December 31, 1954 has been received.

Sales totalled \$109,933,738 last year, resulting in net earnings of \$4,304,100. Although sales decreased 21 per cent from the 1953 total of \$139,783,168, due to slower business activity generally throughout the nation, earnings dropped only eleven per cent from \$4,852,896 in the same period. As a result, earnings per dollar of sales increased from 3.5 cents in 1953 to 3.9 cents last year.

Earnings per share of common stock totalled \$3.19 last year, compared to \$3.70 the previous year. Cash dividends totalling \$2.25 per share were paid on common stock, down 75 cents from the year before. It was the 53rd consecutive year that the company has paid cash dividends to shareholders.

JOHNS-MANVILLE

Bernard S. Kosuda, East Seneca, N. Y., automotive sales representative of Johns-Manville Industrial Products Div., Buffalo, was recently graduated from J-M training center at Manville, N. J., from an advanced course in modern sales techniques. Trainees make survey of all company products in the research pilot plant and final production stages.

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BEAUFORD H. REEVES DIES SUDDENLY

Beauford H. Reeves, 63, President of Rockbestos Products Corporation, New Haven, died suddenly in his office on April 1st. His death followed by twenty-nine days the sudden death of the company's first and only other president, Arthur Gove Newton.

Mr. Reeves had been elected president of the wire and cable company on March 5 at a special meeting of the Rockbestos board of directors.

Well known for his activities in the wire and cable industry and in New Haven business and civic affairs, he has been associated with Rockbestos since 1923. He came to New Haven from Philadelphia where he had been works manager of the Fletcher Works, textile machinery manufacturers. Before that, he had been a sales engineer in Cleveland for Johns Manville.

Starting as an engineer at Rockbestos, he moved up in successive steps to vice-president and general manager in 1936, and finally to president. He played an important role in the engineering and development work which won for Rockbestos recognition as a leader in the manufacture of heat and flame-proof wires and cables.

A native of Louisville, Kentucky, he was graduated from the University of Michigan. During World War I, he was a captain in the 38th Artillery, C.A.C.

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Producers of Low Iron Chrysotile

Crudes and Filter Fibre

MINES AND MILL IN GILA COUNTY

UNITED STATES RUBBER COMPANY
Annual Report

Net profit of United States Rubber Company for 1954 was \$28,958,902 and net sales totaled \$781,574,240, according to report recently released.

These figures compared with net profit of \$32,732,300 and net sales of \$838,451,068 in 1953. Thus, net profit declined 14.6 per cent on 6.8 per cent lower sales.

Net profit was equivalent to \$4.29 a share and 3.6 per cent of sales, compared with \$5.19 a share and 3.9 per cent of sales in 1953.

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial & Financial Chronicle. No guarantee as to their correctness.)

	Par	March 1955		Last
		Low	High	
Amer. Br. Shoe (Com).....	np	34½	36½	35¾
Amer. Br. Shoe (Pfd).....	100	101½	102	100½
Armst. Ck. (Com).....	np	86¼	90½	87¾
Armst. Ck. (Pfd).....	np	96%	99%	98
Asb. Corp. (Com).....	np	33	33¾	33
Carey (Com).....	10	29¼	33¾	32½
Cassiar Asb. Corp.	np	\$7.90	\$8.50	\$8.40
Celotex (Com).....	np	28%	40%	31¼
Celotex (Pfd).....	20	19¼	19%	19¼
Certainteed (Com).....	1	23½	28%	25%
Dominion Asb. Mines.....	1	\$.15	\$.24	\$.21
Flintkote (Com).....	np	39%	45½	44%
Flintkote (Pfd).....	np	102¾	102¾	102¾
Johns-Manville (Com).....	np	83½	90½	88¾
Natl. Gypsum (Com).....	1	45½	51¼	46½
Natl. Gypsum (Pfd).....	np	103¼	104½	104
Pabco Products (Com).....	np	22	25%	25
Pabco Products (Pfd).....	100	93½	96	95½
Ray-Man (Com).....	np	50	53¾	51¼
Ruberoid (Com).....	1	42¾	47¼	43¼
Thermoid (Com).....	1	8	9½	8¾
Thermoid (Pfd).....	50	44	45%	44½
Union Asb. & Rub. (Com).....	5	9	10%	9½
United Asb. (Com).....	1	\$5.25	\$6.10	\$5.30
U. S. Gypsum (Com).....	20	214	234	228
U. S. Gypsum (Pfd).....	100	181	184½	182
U. S. Rub. (Com).....	5	39%	44½	42¾
U. S. Rub. (Pfd).....	100	159½	164	163½

JOHNS-MANVILLE LEAVES TORONTO

Canadian Products Division of Canadian Johns-Manville Co. Ltd., is now part of a new office building-warehousing establishment built at Port Credit, Ont., instead of at 195 Bay St., Toronto as heretofore.

New location also houses the Ontario sales office and the Contract Dept. The move gives the company enlarged facilities totalling some 70,000 square feet.

UNION ASBESTOS & RUBBER CO.

Erle T. Plummer has been promoted to assistant general sales manager of the Union Asbestos & Rubber Company's Fibrous Products Division.

Mr. Plummer began his business career with the Wells Fargo Bank in San Francisco in 1939. He joined Unarco in 1950 as a sales representative for the Fibrous Products Division in the San Francisco office and later served in a similar capacity in the company's Houston, Texas office.

CURRENT RANGE OF PRICE

As of April 10, 1955

Arizona—	Per Ton of 2,000 lbs., f.o.b. Globe, Arizona
No. 1 Crude (soft).....	\$1,600.00 to \$1,700.00
No. 2 Crude (soft).....	1,000.00 to 1,050.00
No. 3 Crude (soft).....	450.00 to 500.00
Filter Fibre (soft).....	250.00 to 450.00
No. 1 Crude (semi-soft).....	1,200 to 1,500.00
No. 2 Crude (semi-soft).....	900.00
No. 3 Crude (semi-soft).....	400.00

Canada—	Per Ton 2000 lbs. f.o.b. Mine
Group No. 1 (Crude No. 1).....	\$1,100.00 to \$1,500.00
Group No. 2 Crude No. 2; Crude Run-of-Mine and Sundry.....	500.00 to 1,000.00
Group No. 3 (Spinning Fibre).....	300.00 to 525.00
Group No. 4 (Shingle Fibre).....	150.00 to 200.00
Group No. 5 (Paper Fibre).....	100.00 to 140.00
Group No. 6 (Waste, Stucco or Plaster).....	77.00
Group No. 7 (Refuse or Shorts).....	35.00 to 70.00

Vermont—	Per Ton of 2000 lbs. f.o.b. Hyde Park or Morrisville, Vt.
Group No. 3 (Spinning & Filtering).....	\$ 321.00 to \$ 348.00
Group No. 4 (Shingle Fibre).....	156.00 to 173.00
Group No. 5 (Paper Fibre).....	109.00 to 132.00
Group No. 6 (Waste, Stucco or Plaster).....	77.00
Group No. 7 (Refuse or Shorts).....	37.00 to 68.50

**EDWARD D. FLAVIN APPOINTED
VICE PRESIDENT OF J-M**

Appointment of *Edward D. Flavin* as Vice President of the Johns-Manville Sales Corporation and Manager of Special Industries, Industrial products Division, has been recently announced.

Mr. Flavin succeeds *L. A. Baldwin*, who retires after a thirty-five year career with the company.

Mr. Flavin attended Syracuse University and served as an engineer with several corporations prior to joining J-M in 1929 as a Sales Representative in the Syracuse District. He was made Assistant District Manager of the New York Industrial Products Division in 1939 and in 1946 was appointed New York District Manager. In 1953, he was promoted to Assistant Manager, Special Industries Department of the company's Industrial Products Division.

**THE CAREY CO.
Annual Stockholders Meeting**

The annual stockholders meeting of The Philip Carey Mfg. Company was held March 28th at the general offices in Cincinnati, Ohio.

All directors, executive committeemen and officers were re-elected. Those serving on the executive committee include *George A. Rentschler*, chairman; *H. E. Coombe*, *J. W. Humphrey*, *Robert S. King, Sr.* and *J. J. Rowe*. The above are also board members with *H. R. Barrett*, *L. W. Clarke*, *C. C. Merrifield* and *C. B. Pooler*. Officers are *Robert S. King, Sr.* chairman of the board; *J. W. Humphrey*, president; *H. R. Barrett*, vice president-finance; *L. W. Clarke*, vice president-sales; *C. B. Pooler*, vice president; *S. E. Breuleux*, treasurer and assistant secretary; *E. J. Fasold*, secretary and assistant treasurer.

A.S.T.M.

Copies of the Edward Marburg Lecture, "Interpretation of Engineering Data: Some Observations", by Harold F. Dodge, which was presented at the 1954 Annual Meeting of the American Society for Testing Materials, are now available. Copies may be obtained from the American Society for Testing Materials, 1916 Race Street, Philadelphia 2, Pa., at \$1.50 each.

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SACOMO MANUFACTURING REORGANIZED

Sacomo Manufacturing Company, San Francisco, California, makers of mechanical packings, molded rubber goods and asbestos textiles, has announced that the company has been re-organized as of March 1st, 1955.

Victor Sagues, one of the former partners, is the new company president; *John B. Davis* is sales manager; and *John B. Crawford*, production manager. *Jim Williams* is the new factory representative in the Southern California area.

Sacomo was formed seven years ago as an outgrowth of the Plant Rubber and Asbestos Works, which had been in business in San Francisco for over 21 years.

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THE TWELVE ESTIMATING TABLES

The Twelve Estimating Tables, with Chart, convenient in figuring flange fittings and other areas, is \$1.00 per set.

These tables have been found very useful by estimators in figuring areas, but since we have not for some time published the detailed list, it occurred to us that many would like to know exactly what the tables cover, and order them before the fall work begins. Following is the list.

Sq. Ft. Areas of Pipe Covering.

Mean Sq. Ft. Areas Standard Screwed Fittings.

Mean Area Standard Weight Flanged Fittings.

Standard Weight Flange Areas, Permanent Type.

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Figuring Hair Felt, 1", 1½", 2".

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Cork Pipe Covering, Outside Area in Sq. Ft.

Ice Water Thick Cork Moulded Fittings Screwed,
Outside Area in Sq. Ft.

Brine Thickness Cork Moulded Fittings, Screwed,
Outside Area in Sq. Ft.

Special Thickness Cork Moulded Fittings, Screwed,
Outside Area in Sq. Ft.

Dusts and Flue Perimeters.

The chart gives an easy way to figure Curved
Cylindrical Surfaces.

The tables are printed on paper which will wear well under handling. Orders can be filled immediately upon receipt, write Asbestos 807 Western Savings Fund Bldg., Philadelphia 7, Pa.

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TABOR MINING COMPANY

The Tabor Mining Company, Pasadena, California, are in the process of opening the Phoenix Mines in Napa County, near Monticello, Calif., to produce short fibre (7R) Chrysotile asbestos for the asphalt tile makers on the west coast. This extensive deposit of excellent quality has been declared the only deposit yet discovered in the west in which the physical properties of the asbestos would lend themselves to making high strength tile.

The asbestos fibre showing in the rock of the entire deposit is "cross-fibre" of the chrysotile variety, and is equal to asbestos from the Canadian deposits, as the following table of Analysis shows:

	General Formula	Canadian	California (Phoenix Mine) (Tabor Mining Co.)
Silica	40%	38.95	38.49
Magnesia	40	29.90	37.00
*Combined			
Water	10	13.12	15.91
*Uncombined			
Water	....	1.83	2.09
Iron Oxide)		5.80	2.88)
Aluminum)		1.63	3.17)
Lime)	10 Impurities	Trace	.28)
Alkalies)		8.77	.27)
Total			
Impurities	10%	6.20%	6.60%

* Uncombined water does no harm. Combined water is advantageous as it causes silkiness of fibre, which is more desirable.



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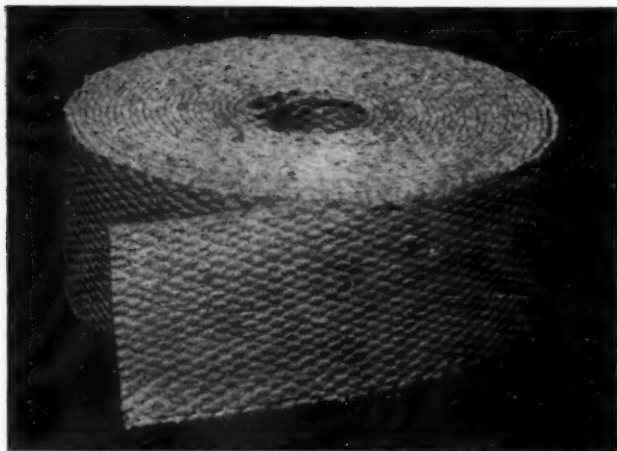
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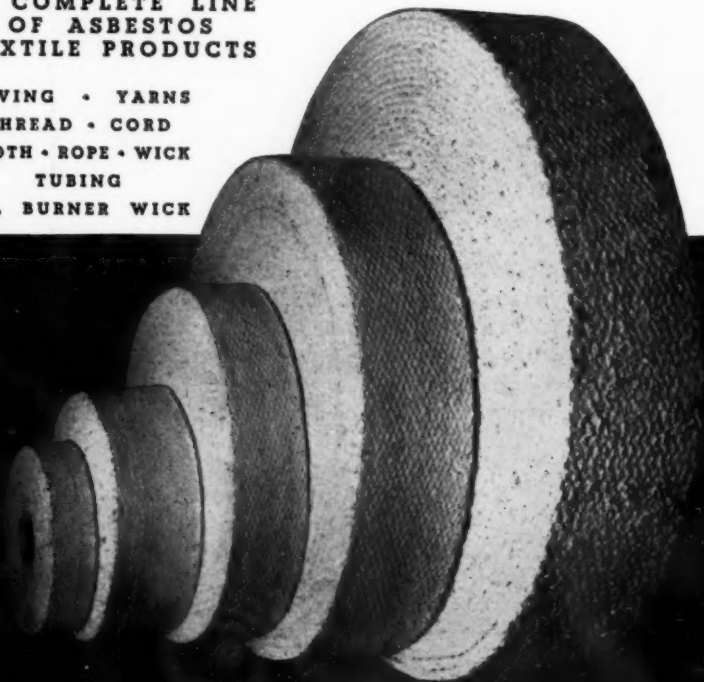
Southern Listing Tapes are flame proof. Flexible, uniform weave, width and thickness assures superior service and insulation. High tensile strength insures efficient application.

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Over 25 years of specialized experience in Asbestos Textiles and Textile Products is at your service at Southern Asbestos. Our technical and production facilities are available to help you improve old and develop new uses for asbestos fibre and textiles.

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